

*Rec'd
1-13-00*

CERTIFICATE OF MAILING (37 CFR 1.8)

Date of Deposit with U.S. Postal Service: January 10, 2000

I hereby certify that this paper is being deposited with the United States Postal Service as first class mail under 37 CFR 1.8 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington D.C. 20231.

Julie K. Lyons, Legal Assistant
Name of Person Mailing Paper

Julie K. Lyons
Signature

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit : 1645
Examiner : S. Turner
Applicant(s) : ME Gurney, AM Pauley and J Li
Serial No. : 09/213,888
Filed : 17 December 1998
For : Human Sel-10 Polypeptides and Polynucleotides that Encode Them

Commissioner of Patents and Trademarks
Washington, DC 20231

**INFORMATION DISCLOSURE STATEMENT TRANSMITTAL
UNDER 37 CFR 1.97 AND 1.98**

Sir:

Information Disclosed. The information disclosed consists of the following:

- Form PL-1449.** Provided herewith are copies of patent(s) and/or publication(s) as listed in the attached form PL-1449.
- At least to the extent required under §1.98(a)(3), a concise explanation of the relevance of references listed in form PL-1449 is:
- contained in the above-captioned specification as filed;
- provided in a communication enclosed with this paper;
- provided in the International Search Report enclosed with this paper; and/or
- not necessary as all of the references cited are in the English language.

- [] ***Disclosure from Predecessor Application.*** Provided herewith is a copy (or the copy is already present in the present file wrapper in accordance with §1.53(d)) of one or more forms PL-1449 and/or search/examination reports of record in this or a predecessor application, Serial No. filed , the benefit of which is claimed under 35 USC 120. Copies of references are present in the prosecution history of the referenced application and are not supplied herewith pursuant to §1.98(d).

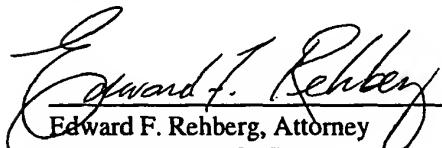
Basis for Consideration. This information disclosure statement is entitled to consideration by the Office under:

- [] ***§1.97(b),*** as being filed within three months of the filing date of the above-captioned application and/or the date of entry of the National Stage, if later, and/or before the mailing date of the first Office action on the merits. Applicant(s) is/are unaware that any office action has issued in this case. However, in the event a first office action has issued, prior to the mailing of this document, then authorization is given to charge the late fee to the deposit account identified below.
- [X] ***§1.97(c),*** as being filed after the period specified in §1.97(b), but before the mailing date of a final action under §1.113 and/or the notice of allowance under §1.311.
Consideration of this information disclosure statement at this time is requested for the reason checked below:
- [X] Authorization is hereby provided to charge Deposit Account No. 21-0718 the fee set forth in §1.17(p), \$240.00, or such greater or lesser amount as the Commissioner may from time to time prescribe by rule. Triplicate copies of this paper are provided to facilitate the charge to the Deposit Account.
- [] A statement as specified in 37 CFR 1.97(e) below.
- [] ***§1.97(d),*** as being filed after the period specified in §1.97(c), but on or before payment of the issue fee and is accompanied by:
- [] Authorization to charge Deposit Account No. 21-0718 the fee set forth in §1.17(i), \$130.00, or such greater or lesser amount as the Commissioner may from time to time prescribe by rule. Triplicate copies of this paper are provided to facilitate the charge to the Deposit Account.
- [] A petition requesting consideration of the information disclosure statement; and
- [] A statement as specified in 37 CFR 1.97 (e) below.
- [] ***§1.97(e),*** this is a supplemental information disclosure statement. A prior information disclosure statement has already been filed. Applicant certifies, as provided in 37 CFR 1.97 (e), that

- [] Each new item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to the filing of this statement.
- [] No item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing below, after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three (3) months prior to the filing of this statement.

Disclaimer. In accordance with §1.97(g) and (h), the filing of this information disclosure statement is not to be construed as an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in §1.56, and is not to be construed as a representation that a search has been made.

Respectfully submitted,


Edward F. Rehberg, Attorney
Registration No. 34,703

Date: 1-10-2000

Pharmacia & Upjohn Company
Global Intellectual Property
301 Henrietta Street
Kalamazoo, Michigan 49001

Telephone No. (616) 833-7829 or (616) 833-9500
Telefax No. (616) 833-8897 or (616) 833-2316

Attachment(s)

- [X] Form 1449 with copies of reference(s)
- [] Form 1449 from predecessor application (no references)
- [] Communication providing concise explanation of relevance
- [X] International Search Report

LIST OF REFERENCES CITED BY APPLICANT <i>(Use several sheets if necessary)</i>	Atty. Docket No. 6142.N CP	Serial No. 09/213,888
	Applicant Adele M. Pauley, Mark E. Gurney, Jinhe Li	
	Filing Date 19 Dec., 1997	Group 1641

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA						
	AB						
	AC						
	AD						

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	AE	WO 97/11956	3 April 1997	World	C07H	21/04	X	
	AF							
	AG							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AH	F55B12.3 GenPep Report (WMBL locus CEF55B12, accession z79757) <i>Sept. 1996</i>
	AI	D.R. Borchelt, G. Thinakaran, C.B. Eckman, M.K. Lee, F. Davenport, T. Ratovitsky, C.-M. Prada, G. Kim, S. Seekins, D. Yager, H.H. Slunt, R. Wang, M. M. Seeger, A.I. Levey, S.E. Gandy, N.G. Copeland, N.A. Jenkins, D.L. Price, S.G. Younkin, S.S. Sisodia, "Familial Alzheimer's Disease-Linked Presenilin 1 Variants Elevate $\text{A}\beta 1-42/1-40$ Ratio In Vitro and In Vivo," Neuron, 1996, 17:1005-1013
	AJ	D.R. Borchelt, T. Ratovitski, J. van Lare, M.K. Lee, V. Gonzales, N.A. Jenkins, N.G. Copeland, D.L. Price, S.S. Sisodia, "Accelerated Amyloid Deposition in the Brains of Transgenic Mice Coexpressing Mutant Presenilin 1 and Amyloid Precursor Proteins," Neuron, 1997, 19:939-945
	AK	M. Citron, D. Westaway, W. Xia, G. Carlson, T. Diehl, G. Levesque, K. Johnson-Wood, M. Lee, P. Seubert, A. Davis, D. Kholodenko, R. Motter, R. Sherrington, B. Perry, H. Yao, R. Strome, I. Lieberburg, J. Rommens, S. Kim, D. Schenk, P. Fraser, P. St George Hyslop, D.J. Selkoe, "Mutant presenilins of Alzheimer's disease increase production of 42-residue amyloid β -protein in both transfected cells and transgenic mice," Nat. Med., 1997, 3:67-72
	AL	A. Doan, G. Thinakaran, D.R. Borchelt, H.H. Slunt, T. Ratovitsky, M. Podlisny, D.J. Selkoe, M. Seeger, S.E. Gandy, D.L. Price, S.S. Sisodia, "Protein Topology of Presenilin 1," Neuron, 1996, 17:1023-1030
	AM	K. Duff, C. Eckman, C. Zehr, X. Yu, C.-M. Prada, J. Perez-Tur, M. Hutton, L. Buee, Y. Harigaya, D. Yager, D. Morgan, M.N. Gordon, L. Holcomb, L. Refolo, B. Zenk, J. Hardy, S. Younkin, "Increased amyloid- $\beta 42(43)$ in brains of mice expressing mutant presenilin 1," Nature, 1996, 383:710-713
	AN	I. Greenwald, G. Seydoux, "Analysis of gain-of-function mutations of the lin-12 gene of <i>Caenorhabditis elegans</i> ," Nature, 1990, 346: 197-9
	AO	M. Hochstrasser, "Ubiquitin-dependent protein degradation," Annual Review of Genetics, 1996, 30:405-439

LIST OF REFERENCES CITED BY APPLICANT <i>(Use several sheets if necessary)</i>			Atty. Docket No. 6142.N CP	Serial No. 09/213,888
		Applicant Adele M. Pauley, Mark E. Gurney, Jinhe Li		
		Filing Date 19 Dec., 1997		Group 1641
	AP	E.J.A. Hubbard, G. Wu, J. Kitajewski, I. Greenwald, "sel-10, a negative regulator of lin-12 activity in <i>Caenorhabditis elegans</i> , encodes a member of the CDC4 family of proteins," <i>Genes & Development</i> , 1997, 11: 3182-3193		
	AQ	T.W. Kim, W.H. Pettingell, O.G. Hallmark, R.D. Moir, W. Wasco, R.E. Tanzi, "Endoproteolytic Cleavage and Proteasomal Degradation of Presenilin 2 in Transfected Cells," <i>Journal of Biological Chemistry</i> , 1997, 272: 11006-11010		
	AR	D.M. Kovacs, H.J. Fausett, K.J. Page, T.-W. Kim, R.D. Moir, D.E. Merriam, R.D. Hollister, O.G. Hallmark, R. Mancini, K.M. Felsenstein, B.T. Hyman, R.E. Tanzi, W. Wasco, "Alzheimer-associated presenilins 1 and 2: Neronal expression in brain and localization to intracellular membranes in mammalian cells," <i>Nat. Med.</i> , 1996, 2:224-229		
	AS	D. Levitan, T.G. Doyle, D. Brousseau, M.K. Lee, G. Thinakaran, H.H. Slunt, S.S. Sisodia, I. Greenwald, "Assessment of normal and mutant human presenilin function in <i>Caenorhabditis elegans</i> ," <i>Proc. Natl. Acad. Sci. USA</i> , 1996, 93: 14940-4		
	AT	D. Levitan, I. Greenwald, "Facilitation of lin-12-mediated signalling by sel-12, a <i>Caenorhabditis elegans</i> S182 Alzheimer's disease gene," <i>Nature</i> , 1995, 377: 351-4		
	AU	E. Levy-Lahad, W. Wasco, P. Poorkaj, D.M. Romano, J. Oshima, W.H. Pettingell, C.-E. Yu, P.D. Jondro, S.D. Schmidt, K. Wang, A.C. Crowley, Y.-H. Fu, S.Y. Guenette, D. Galas, E. Nemens, E.M. Wijsman, T.D. Bird, G.D. Schellenberg, R.E. Tanzi, "Candidate Gene for the Chromosome 1 Familial Alzheimer's Disease Locus," <i>Science</i> , 1995, 269: 973-977		
	AV	J. Li, J. Ma, H. Potter, "Identification and expression analysis of a potential familial Alzheimer disease gene on chromosome 1 related to AD3," <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 1995, 92:12180-12184		
	AW	M. Mercken, H. Takahashi, T. Honda, Z. Sato, M. Murayama, Y. Nakazato, K. Noguchi, K. Imahori, A. Takashima, "Characterization of human presenilin 1 using N-terminal specific monoclonal antibodies: Evidence that Alzheimer mutations affect proteolytic processing," <i>FEBS Lett.</i> , 1996, 389:297-303		
	AX	M. Mullan, F. Crawford, K. Axelman, H. Houlden, L. Lilius, B. Winblad, L. Lannfelt, "A pathogenic mutation for probable Alzheimer's disease in the APP gene at the N-terminus of β -amyloid," <i>Nat Genet</i> , 1992 Aug, 1(5):345-7		
	AY	J. Perez-Tur, S. Froelich, G. Prihar, R. Crook, M. Baker, K. Duff, M. Wragg, F. Busfield, C. Lendon, R.F. Clark, P. Roques, R.A. Fulndner, J. Johnston, R. Cowburn, C. Forsell, K. Axelman, L. Lilius, H. Houlden, E. Karran, G.W. Roberts, M. Rossor, M.D. Adams, J. Hardy, A. Goate, L. Lannfelt, M. Hutton, "A Mutation in Alzheimer's disease destroying a splice acceptor site in the presenilin-1 gene," <i>Neuroreport</i> , 1995, 7:297-301		
	AZ	E.I. Rogaev, R. Sherrington, E.A. Rogaeva, G. Levesque, M. Ikeda, Y. Liang, H. Chi, C. Lin, K. Holman, T. Tsuda, L. Mar, S. Sorbi, B. Nacmias, S. Piacentini, L. Amaducci, I. Chumakov, D. Cohen, L. Lannfelt, P.E. Fraser, J.M. Rommens, P.H. St George-Hyslop, "Familial Alzheimer's disease in kindreds with missense mutations in a gene on chromosome 1 related to the Alzheimer's disease type 3 gene," <i>Nature</i> , 1995, 376: 775-778		
	BB	D. Scheuner, C. Eckman, M. Jensen, X. Song, M. Citron, N. Suzukik, T.D. Bird, J. Hardy, M. Hutton, W. Kukull, E. Larson, E. Levy-Lahad, M. Viitanen, E. Peskind, P. Poorkaj, G. Schellenberg, R. Tanzi, W. Wasco, L. Lannfelt, D. Selkoe, S. Younkin, "Secreted amyloid β -protein similar to that in the senile plaques of Alzheimer's disease is increased in vivo by the presenilin 1 and 2 and APP mutations linked to familial Alzheimer's disease," <i>Nat. Med.</i> , 1996, 2:864-870		

LIST OF REFERENCES CITED BY APPLICANT <i>(Use several sheets if necessary)</i>		Atty. Docket No. 6142.N CP	Serial No. 09/213,888	
		Applicant	Adele M. Pauley, Mark E. Gurney, Jinhe Li	
		Filing Date	19 Dec., 1997	Group 1641
BC	R. Sherrington, E.I. Rogaev, Y. Liang, E.A. Rogaeva, G. Levesque, M. Ikeda, H. Chi, C. Lin, G. Li, K. Holman, T. Tsuda, L. Mar, J.-F. Foncin, A.C. Bruni, M.P. Montesi, S. Sorbi, I. Rainero, L. Pinessi, L. Nee, I. Chumakov, D. Pollen, A. Brookes, P. Sanseau, R.J. Polinsky, W. Wasco, H.A.R. Da Silva, J.L. Haines, M.A. Pericak-Vance, R.E. Tanzi, A.D. Roses, P.E. Fraser, J.M. Rommens, P.H. St George-Hyslop, "Cloning of a gene bearing missense mutations in early-onset familial Alzheimer's disease," Nature, 1995, 375: 754-760			
BD	M. Sundaram, I. Greenwald, "Genetic and Phenotypic Studies of Hypomorphic lin-12 Mutants in <i>Caenorhabditis elegans</i> ," Genetics, 1993, 135: 755-763			
BE	M. Sundaram, I. Greenwald, "Suppressors of a lin-12 Hypomorph Define Genes That Interact With Both lin-12 and glp-1 in <i>Caenorhabditis elegans</i> ," Genetics, 1993, 135: 765-83			
Examiner		Date Considered		

LIST OF REFERENCES CITED BY APPLICANT <i>(Use several sheets if necessary)</i>				Atty. Docket No. 6142.N CP		Serial No. 09/213, 888	
				Applicant ME Gurney, et. al.			
				Filing Date 6/19/1999		Group 1647	
U.S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation
							Yes
	AJ						
	AK						
	AL						
	AM						
	AN						
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AO	Choh, PNAS 77(6): 3211-14, 1980					
	AP	Jenkins, PCR Methods and Appl., S77-82, 1994					
	AQ	Crooke, Antisense & Nucl. Acid Drug Dev., 8:115-22, 1998					
	AR	Genbank Accession No. AA625610; October 15, 1997					
	AS	Genbank H22962 July 6, 1995					
	AT	Genbank H34371 July 19, 1995					
	AU	Sambrook et al., Cold Spring Harbor Labs, 17-1-17.44, 1989					
	AV	Skolnick et al., Trends in Biotech., 18(1):34-39, 2000					
	AW	Yochem et al., J. Mol. Biol., 195:233-45					

LIST OF REFERENCES CITED BY APPLICANT <i>(Use several sheets if necessary)</i>	Atty. Docket No. 6142.N CP	Serial No. 09/213, 888
	Applicant ME Gurney, et. al.	
	Filing Date 6/19/1999	Group 1647
Examiner	Date Considered	